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ANSWER 48 OF 575 CA COPYRIGHT 2004 ACS on STN
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     137:51060 CA
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ED
     Manufacture of composition for preparing cellular fly
ΤI
     ash-concrete for walls and heat-insulting structures
     Belov, V. V.; Kulagin, Yu. V.; Gevorkyan, V. A.
IN
PA
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     Russ., No pp. given
SO
     CODEN: RUXXE7
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     ICM C04B038-02
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     ICS C04B040-00
     58-2 (Cement, Concrete, and Related Building Materials)
CC
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     The compn. comprises cement 25.6-32.8, fly ash
     from thermoelec. plant 32.7-41, sodium sulfate 0.51-0.66, foaming agent
     (e.g., aluminum powder) 0.1-0.26, and tempering water in the
     balance. Sodium sulfate is used as alkali additive and hardening agent.
     The manuf. comprises (a) prepg. a viscous raw mix of components, (b)
     pre-activating fly ash, (c) swelling raw mix, (d)
     hardening during evapn. or under normal conditions, and (e) activating
     fly ash by combined grinding of all dry mix components
     for 20-40 min. Prior to grinding, dry superplasticizer S-3 in amt. of
     0.7-1% of cement wt. is added into the mix, and sulfanol surfactant is added into tempering water in amt. of 0.2-0.5% of
     water. The method improves properties of the compn.
     cellular concrete cement fly ash thermal
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insulator wall